

WHAT IS CLAIMED IS:

1. An electronic device, comprising:  
a display section including a housing having a display surface on its front;

5 an antenna provided in an opening in a back of said housing, wherein said housing is made of a conductive material; and

a communication section configured to perform wireless communications by using said antenna.

10 2. The electronic device according to claim 1, wherein said opening is covered with a cover.

3. The electronic device according to claim 2, wherein said cover is formed of a nonconductive material.

15 4. The electronic device according to claim 2, wherein said cover is removable, and said electronic device further includes a signal output terminal on a signal path between said antenna and said communication section.

20 5. The electronic device according to claim 1, wherein a perimeter length of said opening is equal to or longer than one wavelength of a frequency used in wireless communications.

25 6. The electronic device according to claim 1, wherein a nonconductive portion is provided in the back of said housing, and said antenna is provided in said nonconductive portion.

7. The electronic device according to claim 6, wherein a perimeter length of said nonconductive portion is equal to or longer than one wavelength of a frequency used in wireless communications.

5        8. The electronic device according to claim 6, wherein said housing is grounded.

9. The electronic device according to claim 1, wherein said antenna is provided in a central portion in said opening in a width direction.

10       10. The electronic device according to claim 1, wherein said antenna is provided in an upper portion in said opening in a vertical direction.

15       11. The electronic device according to claim 1, wherein said antenna projects outward from the back of said housing.

12. The electronic device according to claim 1, wherein said antenna includes an antenna substrate and an antenna element provided on said antenna substrate, said antenna substrate including a printed circuit  
20       board formed with a conductive pattern for grounding, and said antenna substrate is connected to said housing.

13. The electronic device according to claim 12, wherein a perimeter length of the conductive pattern is in a range of about 0.7 to about 1.4 of a wavelength of  
25       a frequency used in wireless communications.

14. An electronic device, comprising:  
a display section including a housing having

a display surface on its front;

an antenna provided on a back of said housing; and  
a communication section configured to perform  
wireless communications by using said antenna.

5        15. The electronic device according to claim 14,  
wherein said housing is made of a conductive material,  
an opening is provided in the back of said housing, and  
said antenna is provided in said opening.

10       16. The electronic device according to claim 15,  
wherein said opening is covered with a cover.

17. The electronic device according to claim 16,  
wherein said cover is formed of a nonconductive  
material.

15       18. The electronic device according to claim 16,  
wherein said cover is removable, and said electronic  
device further includes a signal output terminal on a  
signal path between said antenna and said communication  
section.

20       19. The electronic device according to claim 15,  
wherein a perimeter length of said opening is equal to  
or longer than one wavelength of a frequency used in  
wireless communications.

25       20. The electronic device according to claim 14,  
wherein said housing is made of a conductive material,  
a nonconductive portion is provided in the back of said  
housing, and said antenna is provided in said  
nonconductive portion.

21. The electronic device according to claim 20, wherein a perimeter length of said nonconductive portion is equal to or longer than one wavelength of a frequency used in wireless communications.

5        22. The electronic device according to claim 20, wherein said housing is grounded.

23. The electronic device according to claim 14, wherein said housing is made of a nonconductive material applied with conductive coatings, a portion to  
10        which said conductive coatings are not applied is provided on the back of said housing, and said antenna is provided in said portion to which said conductive coatings are not applied.

24. The electronic device according to claim 23,  
15        wherein a perimeter length of said portion to which said conductive coatings are not applied is equal to or longer than one wavelength of a frequency used in wireless communications.

25. The electronic device according to claim 23,  
20        wherein said housing is grounded.

26. The electronic device according to claim 14, wherein said antenna is provided in a central portion in a width direction.

27. The electronic device according to claim 14,  
25        wherein said antenna is provided in an upper portion in a vertical direction.

28. The electronic device according to claim 14,

wherein said antenna projects outward from the back of said housing.

5        29. The electronic device according to claim 14, wherein said antenna includes an antenna substrate and an antenna element provided on said antenna substrate, said antenna substrate including a printed circuit board formed with a conductive pattern for grounding, and said antenna substrate is connected to said housing.

10       30. The electronic device according to claim 29, wherein a perimeter length of conductive pattern is in a range of about 0.7 to about 1.4 of a wavelength of a frequency used in wireless communications.

31. A computer, comprising:

15       a computer body having a keyboard;  
a display section connected to said computer body through a hinge in an openable and closable manner and including a display surface on a front, said display section including a housing made of magnesium alloy and an opening formed on a back, said opening being covered  
20       with a nonconductive cover;

an antenna provided in said opening; and

a communication section provided in said computer body configured to perform wireless communications by using said antenna.

25       32. The computer according to claim 31, wherein said antenna and said communication section are connected by a wire passing through the hinge.

33. The computer according to claim 32, wherein said cover is removable, and said antenna includes a signal output terminal.

34. A computer, comprising:

5       a computer housing;

      a display section coupled to said computer housing having a display surface on a front of the display section, said computer housing having an opening formed on a back;

10       an antenna provided in said opening; and

      a communication section provided in said computer housing configured to perform wireless communications by using said antenna.

15       35. The computer according to claim 34, wherein the housing is made of magnesium alloy.

      36. The computer according to claim 34, wherein said opening is covered with a cover.

      37. The computer according to claim 36, wherein the cover is removable.

20       38. The computer according to claim 34, further including a signal output terminal on a signal path between said antenna and said communication section.

      39. An electronic device, comprising:

25       a display section including a housing having a display surface on its front;

      an antenna provided on a back of said housing;

      a communication section configured to perform

wireless communications by using said antenna; and

a signal output terminal on a signal path between  
said antenna and said communication section, said

signal output terminal adapted to acquire a radio

5 frequency (RF) signal transmitted from the

communication section to the antenna.